

In the Claims

Please replace all prior versions, and listings, of claims in the application with the following list of claims:

1. (Currently amended) A UV sunscreensing composition suitable for cosmetic or topical pharmaceutical use which comprises an amount of one or more organic components which are photosensitive and/or which are degraded and/or in which degradation is induced by another ingredient of the composition, and an effective amount of TiO_2 which is doped with one or more dopant ~~other~~ elements, said effective amount being sufficient to impart to the ~~this~~ composition ~~having~~ a rate of loss of UV absorption at least 5% less than that of a composition having the same formulation except that it does not contain the said TiO_2 which is doped with one or more dopant elements ~~another element~~.
2. (Original) A composition according to claim 1 which is suitable for cosmetic use.
3. (Currently amended) A composition according to claim 1 which contains TiO_2 and/or ZnO which is not doped ~~or reduced~~.
4. (Currently amended) A composition according to claim 1 wherein the dopant element is manganese, ~~vanadium~~, chromium or iron.
5. (Currently amended) A composition according to claim 4 wherein the dopant element is manganese in the form Mn^{3+} .
6. (Currently amended) A composition according to claim 1 wherein the dopant element is present in the TiO_2 which is doped in an amount from 0.05% to 10 mole %.
7. (Currently amended) A composition according to claim 6 wherein the dopant element is present in the TiO_2 which is doped in an amount from 0.5 to 2 mole %.
8. (Canceled)

9. (Currently amended) A composition according to claim 8 wherein the ~~titanium dioxide~~ TiO₂ is in rutile form.
10. (Canceled)
11. (Currently amended) A composition according to claim 1 which comprises 0.5 to 20 % by weight of the ~~doped~~ TiO₂ which is doped.
12. (Currently amended) A composition according to claim 1 wherein the TiO₂ which is doped ~~oxide~~ has a primary particle size from 1 to 200 nm.
13. (Currently amended) A composition according to claim 1 wherein the TiO₂ which is doped ~~oxide~~ has a primary particle size from 100 to 500 nm.
14. (Previously presented) A composition according to claim 1 wherein one or more of the said organic components is a UV sunscreen agent.
15. (Original) A composition according to claim 14 wherein the organic sunscreen agent absorbs UV light in the UVA region.
16. (Currently amended) A composition according to claim 14 wherein the organic sunscreen agent is a paraaminobenzoic acid, ester or derivative thereof, a methoxy cinnamate ester, a benzophenone, a ~~dibenzylmethane~~ dibenzoylmethane, an alkyl-β,β-phenyl acrylate, a triazine, a camphor derivative, an organic pigment, a silicone based sunscreen agent or 2-phenylbenzimidazole-5 sulphonic acid, phenyldibenzimidazole sulphonic acid or a salt ~~salts~~ thereof.
17. (Previously presented) A composition according to claim 1 wherein the said rate of loss of UV absorption is a rate of loss of UVA absorption.

18. (Previously presented) A composition according to claim 1 wherein the rate of change of the ratio of the loss of UVA absorption to the loss of UVB absorption is less than that of a composition of the same formulation except that the TiO_2 present is not doped.

19. (Previously presented) A composition according to claim 18 wherein the rate of change of the ratio is greater because the rate of loss of UVA absorption is reduced.

20. (Previously presented) A composition according to claim 1 which comprises 0.1% to 20% by weight of organic sunscreen agent(s).

21. (Previously presented) A composition according to claim 1 which contains one or more of a fatty substance, organic solvent, silicone, thickener, demulcents, UVB sunscreen agent, antifoaming agent, moisturising agent, perfume preservative, surface activation filler, sequestrant, anionic, cationic, nonionic or amphoteric polymer, propellant, alkalising or acidifying agent, colorant or metal oxide pigment.

22. (Previously presented) A composition according to claim 1 which is a sunscreen.

23. (Previously presented) A composition according to claim 1 which is in the form of a lotion, gel, dispersion, cream, milk, powder or solid stick.

24. (Previously presented) A composition according to claim 23 which comprises a water-dispersible TiO_2 and an oil-dispersible TiO_2 .

25. (Previously presented) A composition according to claim 1 wherein the TiO_2 is coated with an inorganic or organic solvent.

26. (Canceled)

27. (Withdrawn) A method for reducing the concentration of one or more organic UV sunscreen agents or other ingredients which is photosensitive and/or is degraded and/or in which

degradation is induced by another ingredient in a cosmetic UV screening composition, comprising incorporating into the composition a doped or reduced TiO_2/ZnO as defined in claim 1.

28. (Withdrawn) A method for reducing the rate of loss in UV absorption of a sunscreen composition, comprising incorporating into the composition a doped or reduced TiO_2/ZnO as defined in claim 1.

29. (Withdrawn) A method for reducing the rate of change of the ratio of the loss of UVA absorption to the loss of UVB absorption in a cosmetic UV screening composition, comprising incorporating into the composition a doped or reduced TiO_2/ZnO as defined in claim 1, wherein the composition comprises one or more organic components which are photosensitive and/or which are degraded by another ingredient of the composition in a relation a composition of the same formulation except that the TiO_2 and /or ZnO present is not doped or reduced.

30. (Withdrawn) A method of increasing the effectiveness of an organic UV suncreening composition, which comprises one or more components which are photosensitive and/or are degraded and/or in which degradation is induced by another ingredient of the composition which comprises incorporating into the composition a doped or reduced TiO_2/ZnO as defined in claim 1.

31. (Withdrawn) A method of reducing the production of a toxic compound in a UV suncreening composition which comprises incorporating therein doped TiO_2 and/or doped or reduced ZnO as defined in claim 1.

32. (New) A composition according to claim 1 which comprises 0.1% to 5% by weight of organic sunscreen agent(s).

33. (New) A composition according to claim 1 wherein the TiO_2 which is doped is in the form of substantially spherical particles.

34. (New) A UV sunscreensing composition suitable for cosmetic or topical pharmaceutical use which comprises (i) an amount of at least one organic component selected from an organic UVA sunscreen ingredient, an organic UVB sunscreen ingredient, and a mixture thereof, (ii) an undoped oxide selected from undoped TiO_2 , undoped ZnO , and mixtures thereof, and (iii) an effective amount of a TiO_2 which is doped with one or more dopant elements selected from manganese, vanadium, chromium, and mixtures of two or more thereof, said effective amount being sufficient to impart to the composition a rate of loss of UV absorption at least 5% less than that of a composition having the same formulation except that it does not contain the said TiO_2 which is doped with one or more dopant elements.
35. (New) A composition according to claim 34 wherein the dopant element is manganese in the form Mn^{3+} .
36. (New) A composition according to claim 34 wherein the dopant element is present in the TiO_2 which is doped in an amount from 0.05 to 10 mole %.
37. (New) A composition according to claim 36 wherein the dopant element is present in the TiO_2 which is doped in an amount from 0.5 to 2 mole %.
38. (New) A composition according to claim 34 wherein the TiO_2 is in rutile form.
39. (New) A composition according to claim 34 which comprises 0.5 to 20 % by weight of the TiO_2 which is doped.
40. (New) A composition according to claim 34 wherein the TiO_2 which is doped has a primary particle size from 1 to 200 nm.
41. (New) A composition according to claim 34 wherein the TiO_2 which is doped has a primary particle size from 100 to 500 nm.
42. (New) A composition according to claim 34 wherein the organic component is selected

from a paraaminobenzoic acid, ester or derivative thereof, a methoxy cinnamate ester, a benzophenone, a dibenzoylmethane, an alkyl- β,β -phenyl acrylate, a triazine, a camphor derivative, an organic pigment, a silicone based sunscreen agent, and 2-phenylbenzimidazole-5 sulphonic acid, phenyldibenzimidazole sulphonic acid and a salt thereof.

43. (New) A composition according to claim 34 wherein the said rate of loss of UV absorption is a rate of loss of UVA absorption.

44. (New) A composition according to claim 34 wherein the rate of change of the ratio of the loss of UVA absorption to the loss of UVB absorption is less than that of a composition of the same formulation except that the TiO_2 present is not doped.

45. (New) A composition according to claim 44 wherein the rate of change of the ratio is greater because the rate of loss of UVA absorption is reduced.

46. (New) A composition according to claim 34 which comprises 0.1% to 20% by weight of the organic component.

47. (New) A composition according to claim 46 which comprises 0.1% to 5% by weight of the organic component.

48. (New) A composition according to claim 34 which contains one or more of a fatty substance, organic solvent, silicone, thickener, demulcents, UVB sunscreen agent, antifoaming agent, moisturising agent, perfume preservative, surface activation filler, sequestrant, anionic, cationic, nonionic or amphoteric polymer, propellant, alkalising or acidifying agent, colorant or metal oxide pigment.

49. (New) A composition according to claim 34 which is in the form of a lotion, gel, dispersion, cream, milk, powder or solid stick.

50. (New) A composition according to claim 49 which comprises a water-dispersible TiO_2 , and an oil-dispersible TiO_2 .
51. (New) A composition according to claim 34 wherein the TiO_2 is coated with an inorganic or organic solvent.
52. (New) A composition according to claim 34 wherein the TiO_2 which is doped is in the form of substantially spherical particles.